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JUN 18 2001
PATENT & TRADEMARK OFFICE

#3

PATENT
P5781
0045.0013

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	Examiner: Not Yet Assigned
W.B. DeRolf et al.	)	
Serial No.: 09/772,626	)	Art Unit: 2133
Filed: January 30, 2001	)	
For: METHOD, SYSTEM, PROGRAM, AND	)	
DATA STRUCTURES FOR TESTING A	)	
NETWORK SYSTEM INCLUDING	)	
INPUT/OUTPUT DEVICES	)	

TRANSMITTAL OF FORMAL DRAWINGS

Box: MISSING PARTS
Assistant Commissioner of Patents
Washington, D.C. 20231

Dear Sirs:

Enclosed herewith is a complete set (13 sheets) of formal drawings in connection with the above-identified application.

Respectfully submitted,

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Reg. No. 39,867

Dated: June 13, 2001

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I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed: Assistant Commissioner for Patents, Washington, D.C. 20231, on June 13, 2001.

David W. Victor

6/13/01
Date

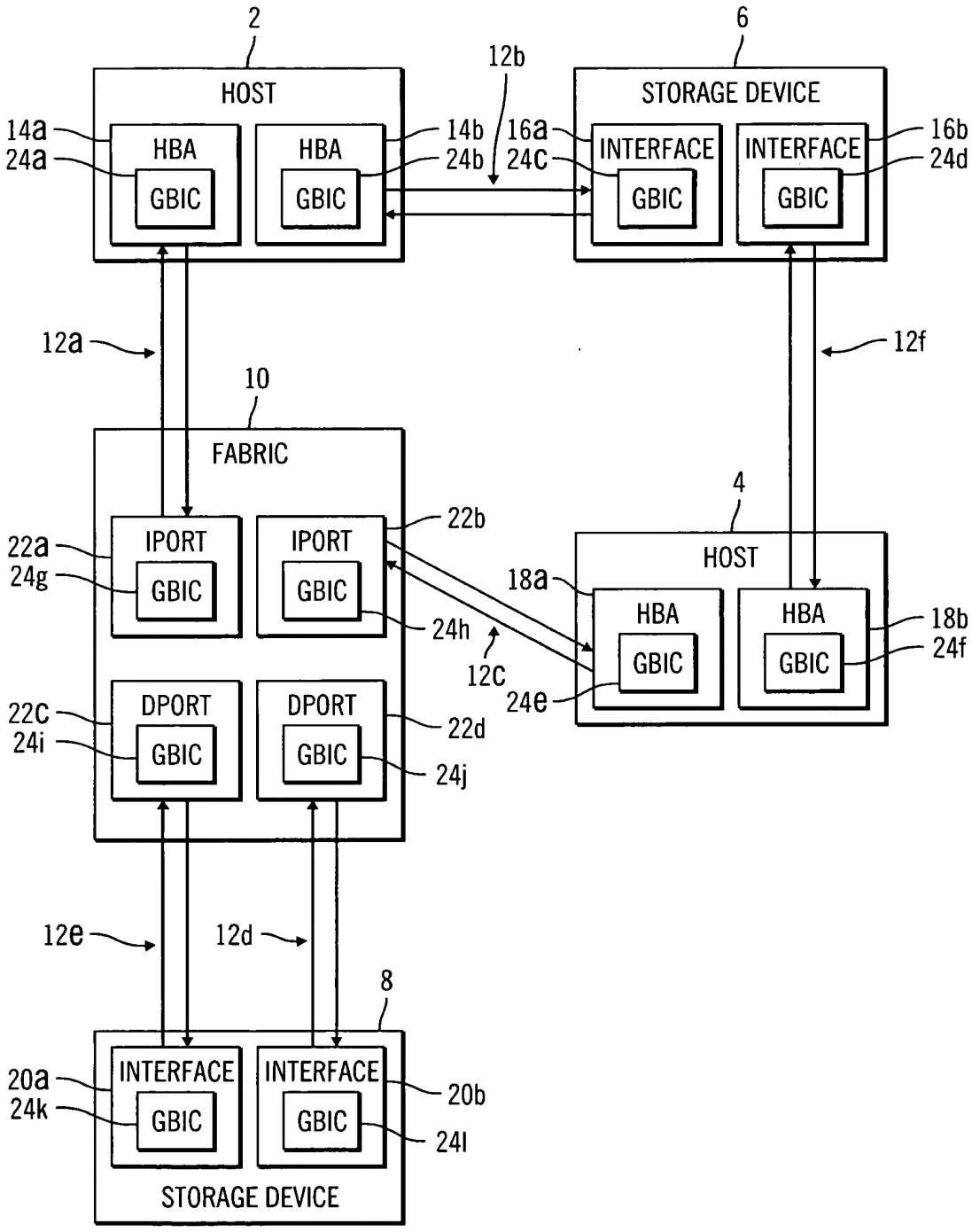
2
HOST
14a
24a
HBA
GBIC
HBA
GBIC
14b
24b
12b
6
STORAGE DEVICE
16a
24c
INTERFACE
GBIC
INTERFACE
GBIC
16b
24d
12a
12f
10
FABRIC
4
HOST
22a
24g
IPORT
GBIC
IPORT
GBIC
22b
24h
18a
HBA
GBIC
HBA
GBIC
18b
24f
12c
24e
22c
24i
DPORT
GBIC
DPORT
GBIC
22d
24j
12e
12d
8
20a
24k
INTERFACE
GBIC
INTERFACE
GBIC
20b
24l
STORAGE DEVICE

FIG. 1

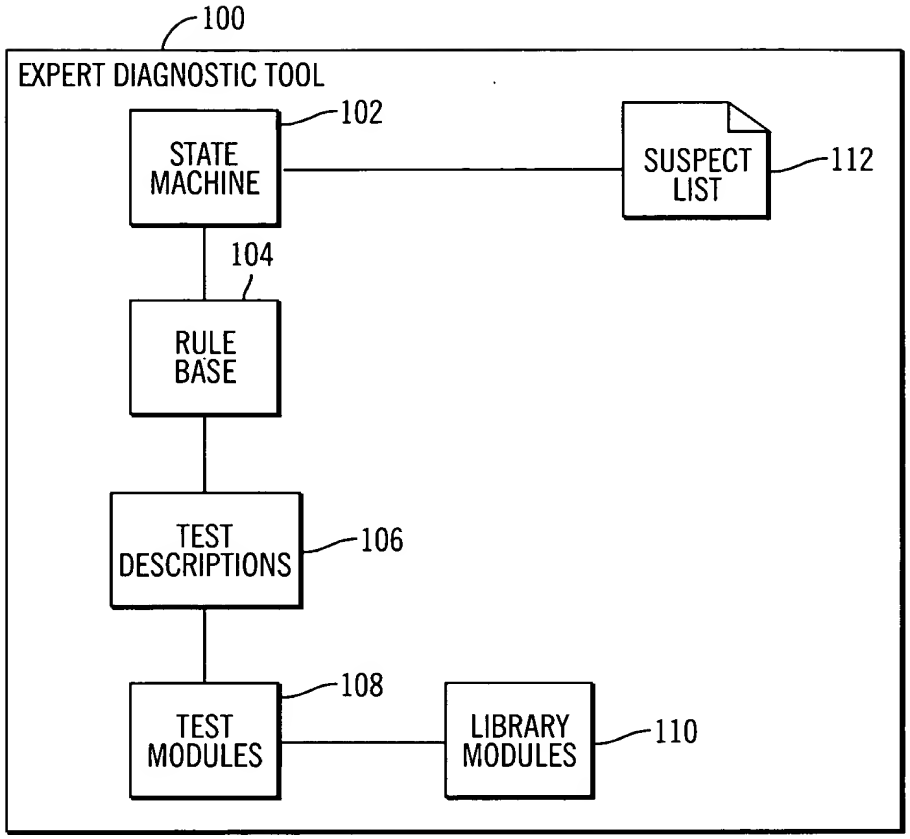

FIG. 2

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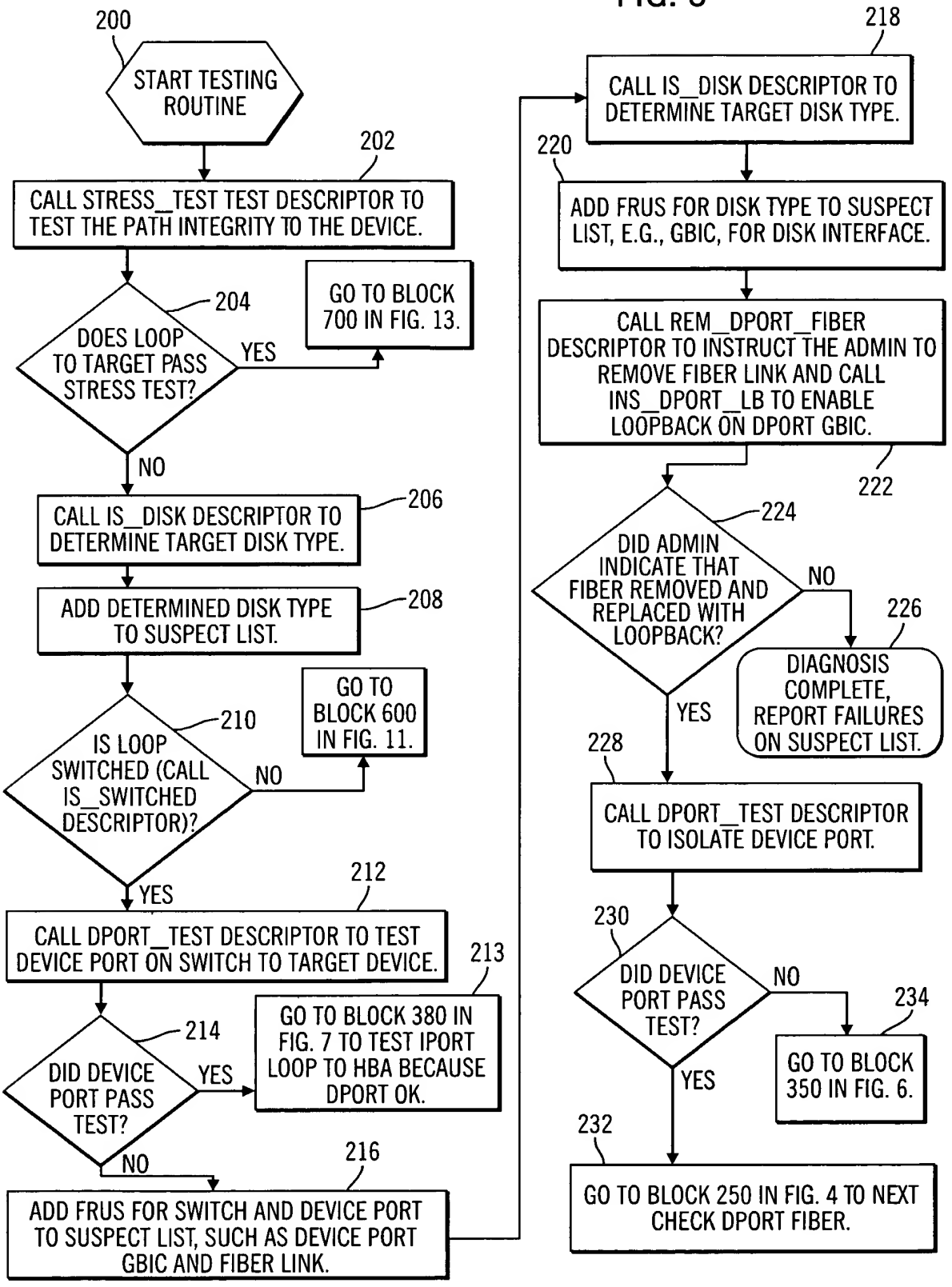
FIG. 3



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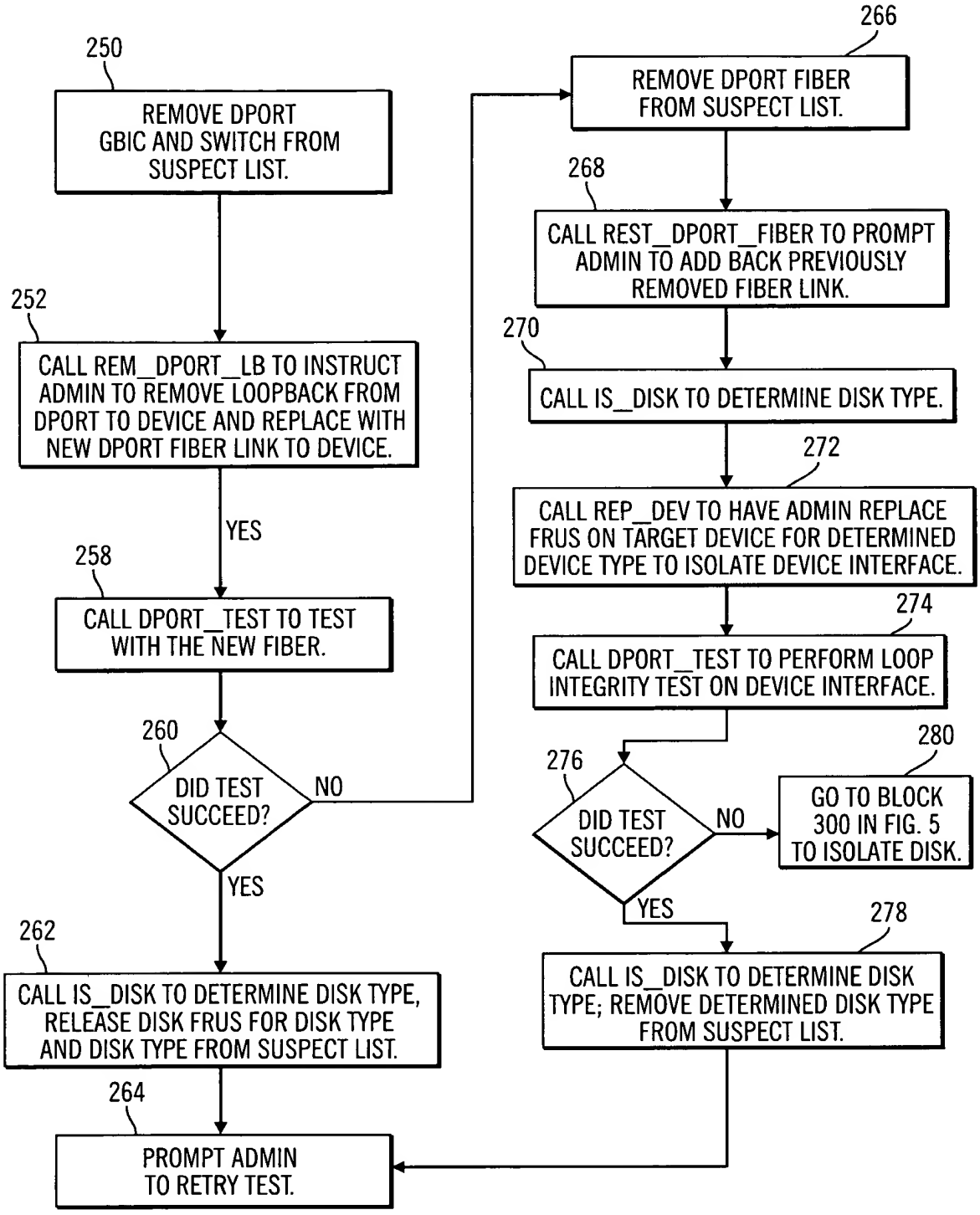
250
REMOVE DPORT GBIC AND SWITCH FROM SUSPECT LIST.
252
CALL REM_DPORT_LB TO INSTRUCT ADMIN TO REMOVE LOOPBACK FROM DPORT TO DEVICE AND REPLACE WITH NEW DPORT FIBER LINK TO DEVICE.
YES
258
CALL DPORT_TEST TO TEST WITH THE NEW FIBER.
260
DID TEST SUCCEED?
NO
YES
262
CALL IS_DISK TO DETERMINE DISK TYPE, RELEASE DISK FRUS FOR DISK TYPE AND DISK TYPE FROM SUSPECT LIST.
264
PROMPT ADMIN TO RETRY TEST.
266
REMOVE DPORT FIBER FROM SUSPECT LIST.
268
CALL REST_DPORT_FIBER TO PROMPT ADMIN TO ADD BACK PREVIOUSLY REMOVED FIBER LINK.
270
CALL IS_DISK TO DETERMINE DISK TYPE.
272
CALL REP_DEV TO HAVE ADMIN REPLACE FRUS ON TARGET DEVICE FOR DETERMINED DEVICE TYPE TO ISOLATE DEVICE INTERFACE.
274
CALL DPORT_TEST TO PERFORM LOOP INTEGRITY TEST ON DEVICE INTERFACE.
276
DID TEST SUCCEED?
NO
280
GO TO BLOCK 300 IN FIG. 5 TO ISOLATE DISK.
YES
278
CALL IS_DISK TO DETERMINE DISK TYPE; REMOVE DETERMINED DISK TYPE FROM SUSPECT LIST.

FIG. 4

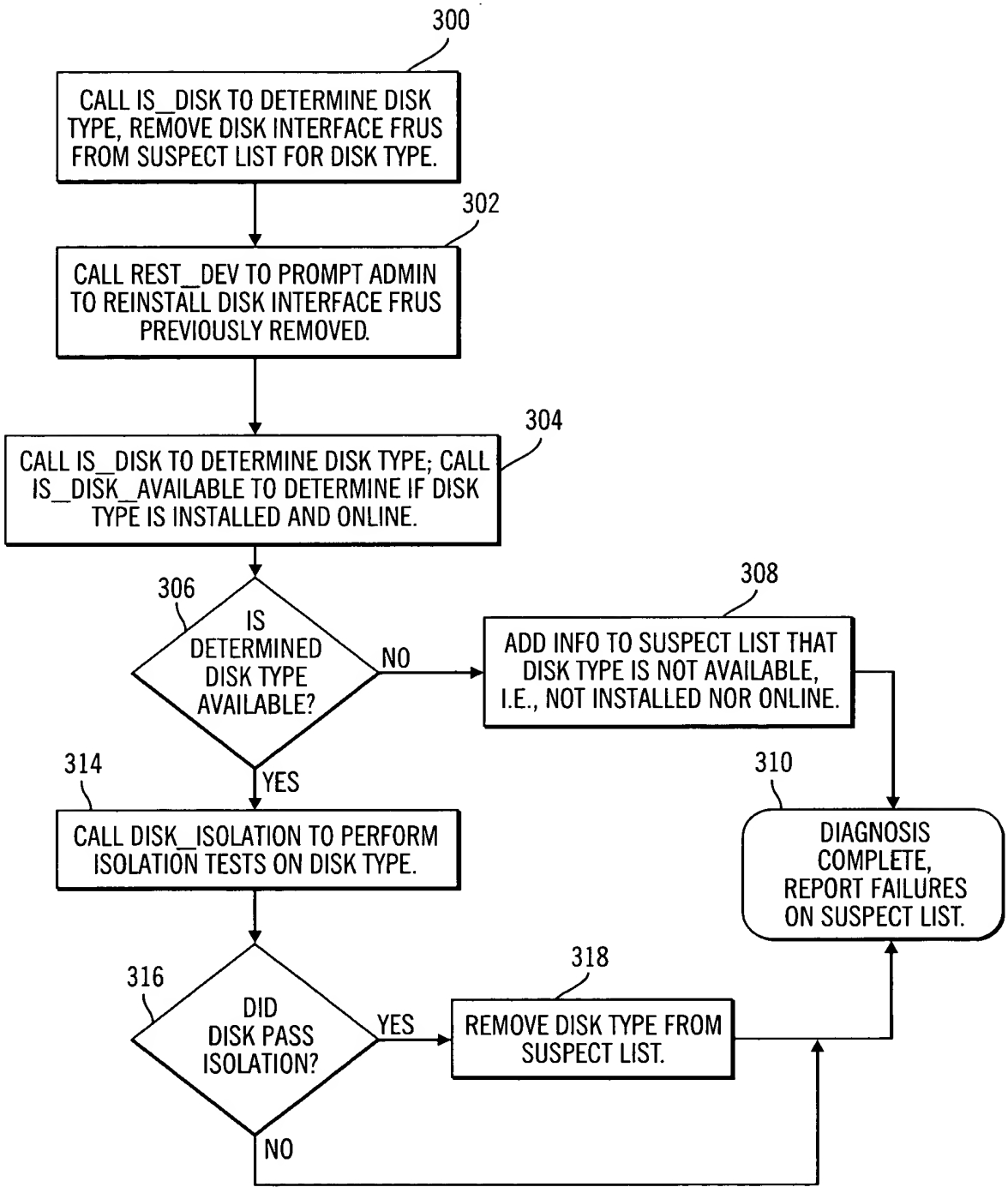
300
CALL IS_DISK TO DETERMINE DISK TYPE, REMOVE DISK INTERFACE FRUS FROM SUSPECT LIST FOR DISK TYPE.
302
CALL REST_DEV TO PROMPT ADMIN TO REINSTALL DISK INTERFACE FRUS PREVIOUSLY REMOVED.
304
CALL IS_DISK TO DETERMINE DISK TYPE; CALL IS_DISK_AVAILABLE TO DETERMINE IF DISK TYPE IS INSTALLED AND ONLINE.
306
IS DETERMINED DISK TYPE AVAILABLE?
NO
308
ADD INFO TO SUSPECT LIST THAT DISK TYPE IS NOT AVAILABLE, I.E., NOT INSTALLED NOR ONLINE.
YES
314
CALL DISK_ISOLATION TO PERFORM ISOLATION TESTS ON DISK TYPE.
316
DID DISK PASS ISOLATION?
YES
318
REMOVE DISK TYPE FROM SUSPECT LIST.
NO
310
DIAGNOSIS COMPLETE, REPORT FAILURES ON SUSPECT LIST.

FIG. 5

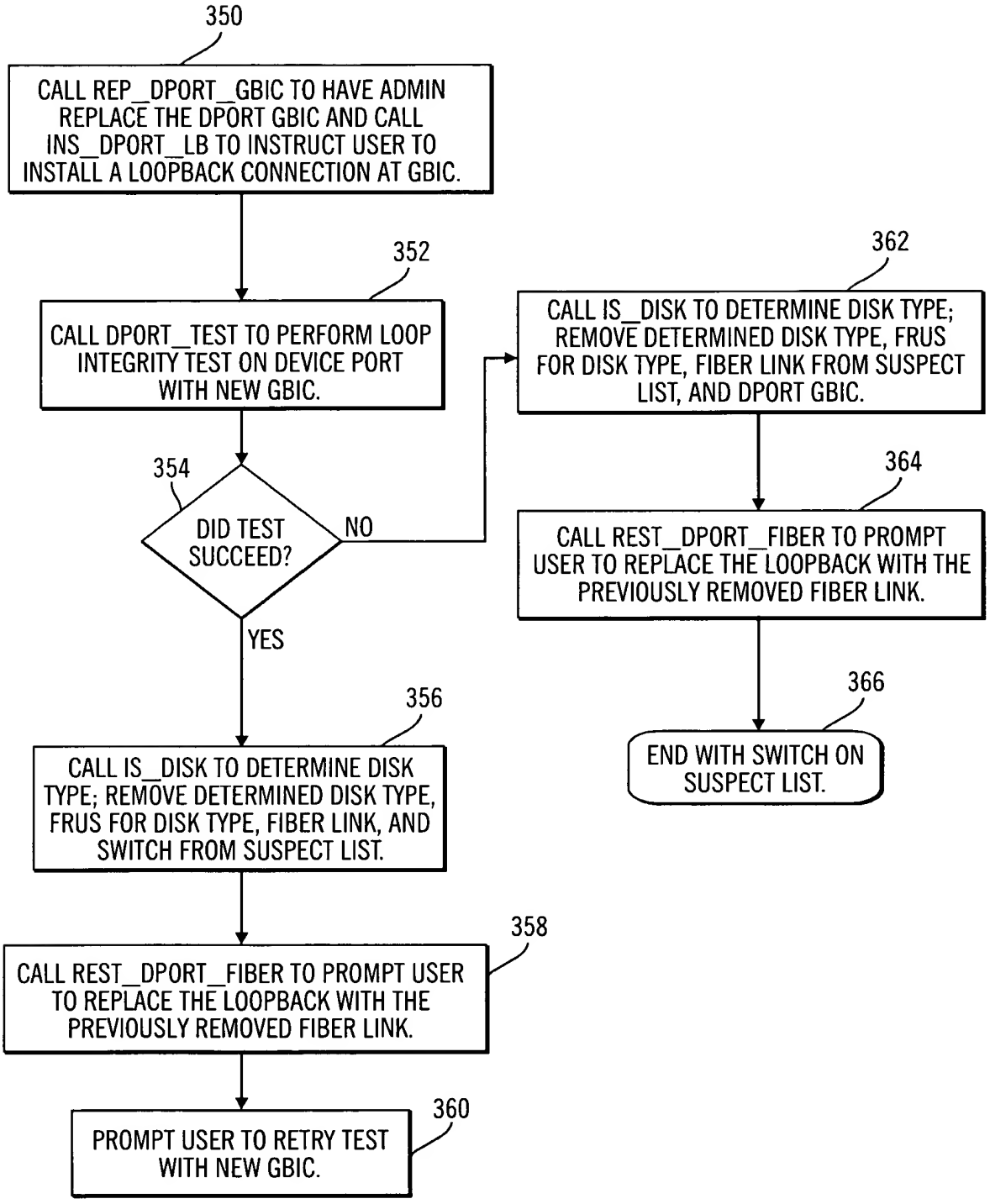
350
CALL REP_DPORT_GBIC TO HAVE ADMIN REPLACE THE DPORT GBIC AND CALL INS_DPORT_LB TO INSTRUCT USER TO INSTALL A LOOPBACK CONNECTION AT GBIC.
352
CALL DPORT_TEST TO PERFORM LOOP INTEGRITY TEST ON DEVICE PORT WITH NEW GBIC.
354
DID TEST SUCCEED?
NO
YES
362
CALL IS_DISK TO DETERMINE DISK TYPE; REMOVE DETERMINED DISK TYPE, FRUS FOR DISK TYPE, FIBER LINK FROM SUSPECT LIST, AND DPORT GBIC.
364
CALL REST_DPORT_FIBER TO PROMPT USER TO REPLACE THE LOOPBACK WITH THE PREVIOUSLY REMOVED FIBER LINK.
366
END WITH SWITCH ON SUSPECT LIST.
356
CALL IS_DISK TO DETERMINE DISK TYPE; REMOVE DETERMINED DISK TYPE, FRUS FOR DISK TYPE, FIBER LINK, AND SWITCH FROM SUSPECT LIST.
358
CALL REST_DPORT_FIBER TO PROMPT USER TO REPLACE THE LOOPBACK WITH THE PREVIOUSLY REMOVED FIBER LINK.
360
PROMPT USER TO RETRY TEST WITH NEW GBIC.

FIG. 6

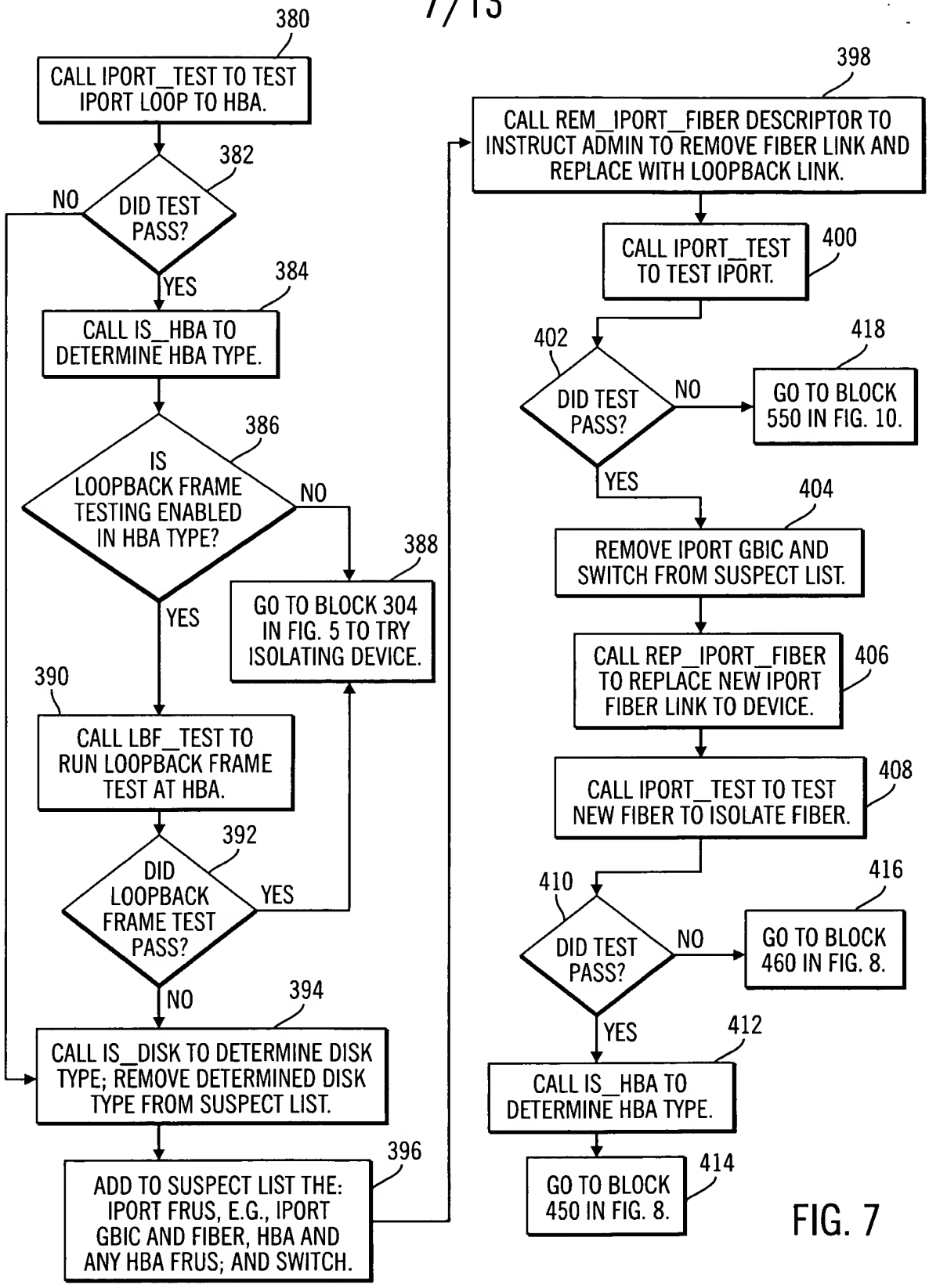

FIG. 7

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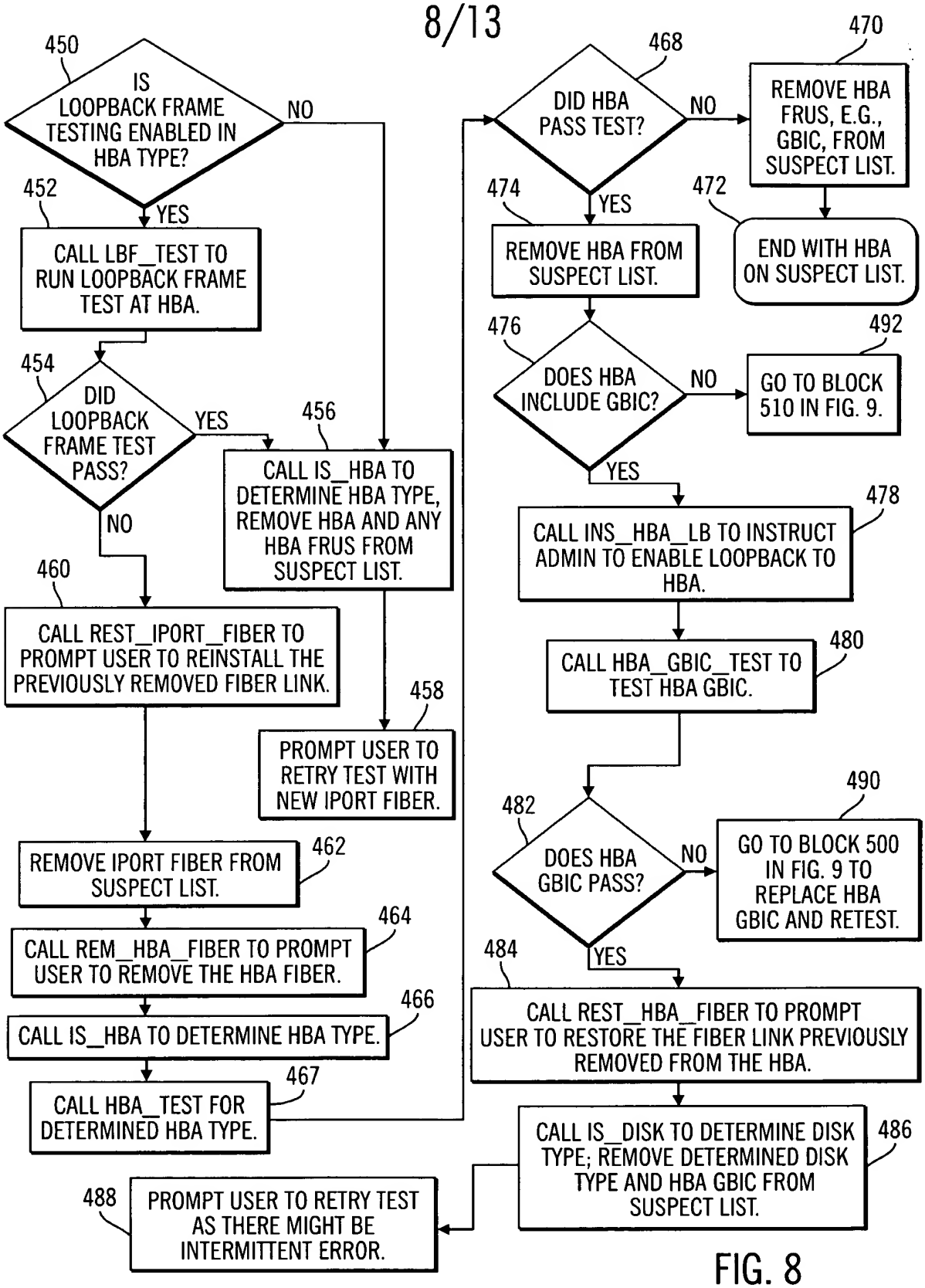

FIG. 8

FOR EXAMINATION PURPOSES

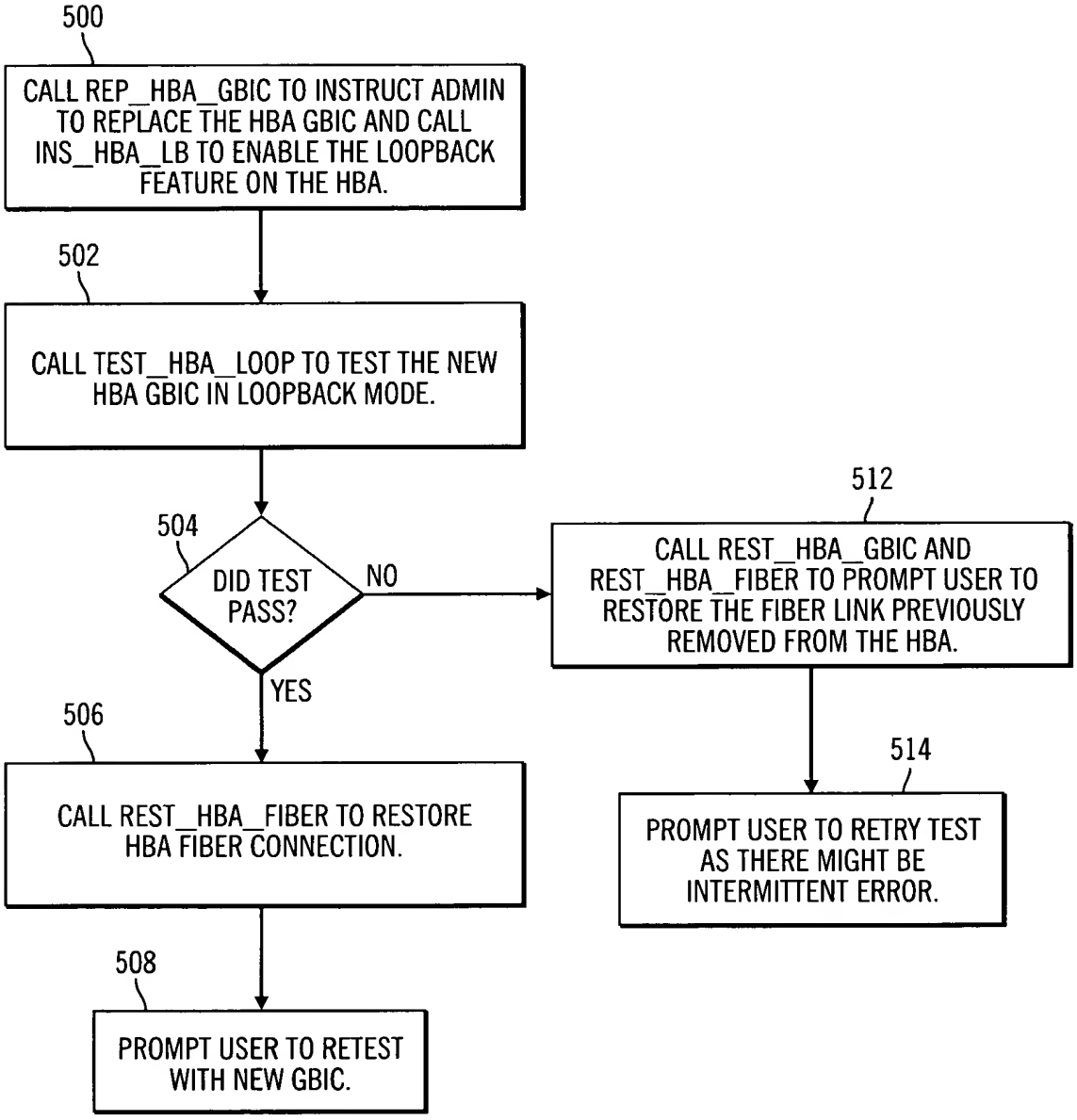

FIG. 9

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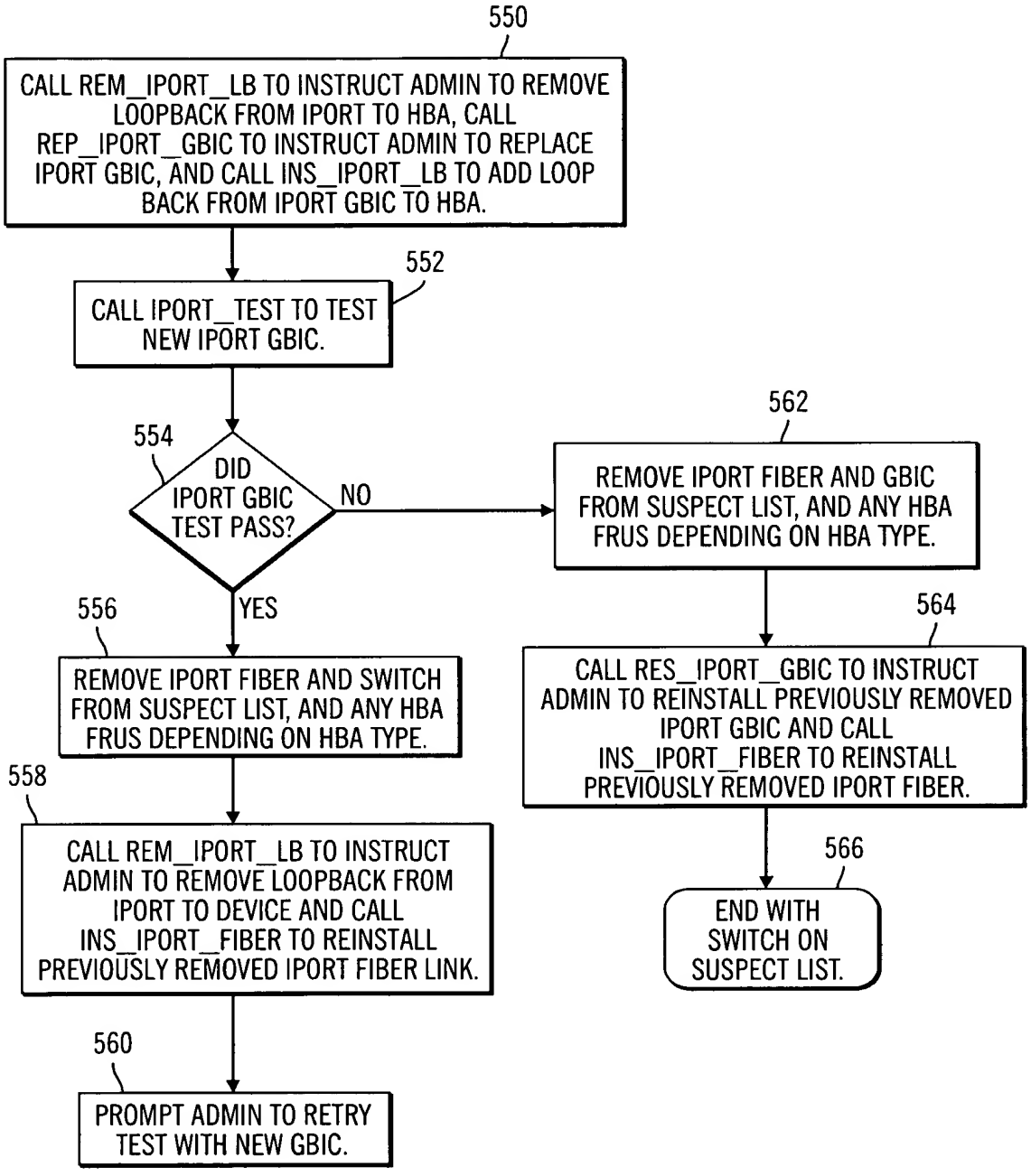
550
CALL REM_IPORT_LB TO INSTRUCT ADMIN TO REMOVE LOOPBACK FROM IPORT TO HBA, CALL REP_IPORT_GBIC TO INSTRUCT ADMIN TO REPLACE IPORT GBIC, AND CALL INS_IPORT_LB TO ADD LOOP BACK FROM IPORT GBIC TO HBA.
552
CALL IPORT_TEST TO TEST NEW IPORT GBIC.
554
DID IPORT GBIC TEST PASS?
NO
YES
562
REMOVE IPORT FIBER AND GBIC FROM SUSPECT LIST, AND ANY HBA FRUS DEPENDING ON HBA TYPE.
564
CALL RES_IPORT_GBIC TO INSTRUCT ADMIN TO REINSTALL PREVIOUSLY REMOVED IPORT GBIC AND CALL INS_IPORT_FIBER TO REINSTALL PREVIOUSLY REMOVED IPORT FIBER.
566
END WITH SWITCH ON SUSPECT LIST.
556
REMOVE IPORT FIBER AND SWITCH FROM SUSPECT LIST, AND ANY HBA FRUS DEPENDING ON HBA TYPE.
558
CALL REM_IPORT_LB TO INSTRUCT ADMIN TO REMOVE LOOPBACK FROM IPORT TO DEVICE AND CALL INS_IPORT_FIBER TO REINSTALL PREVIOUSLY REMOVED IPORT FIBER LINK.
560
PROMPT ADMIN TO RETRY TEST WITH NEW GBIC.

FIG. 10

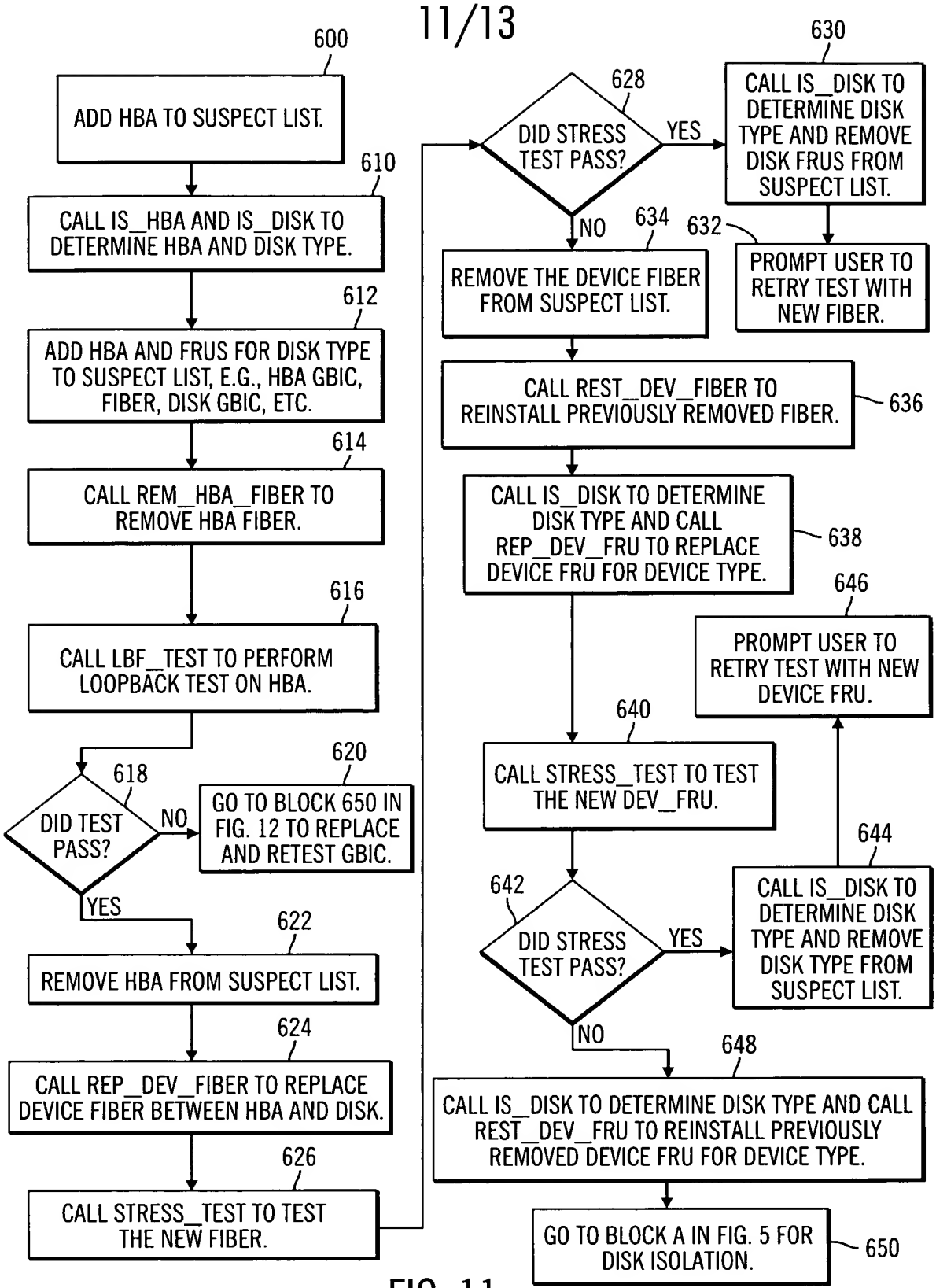

FIG. 11

Tuesday, May 20, 2003

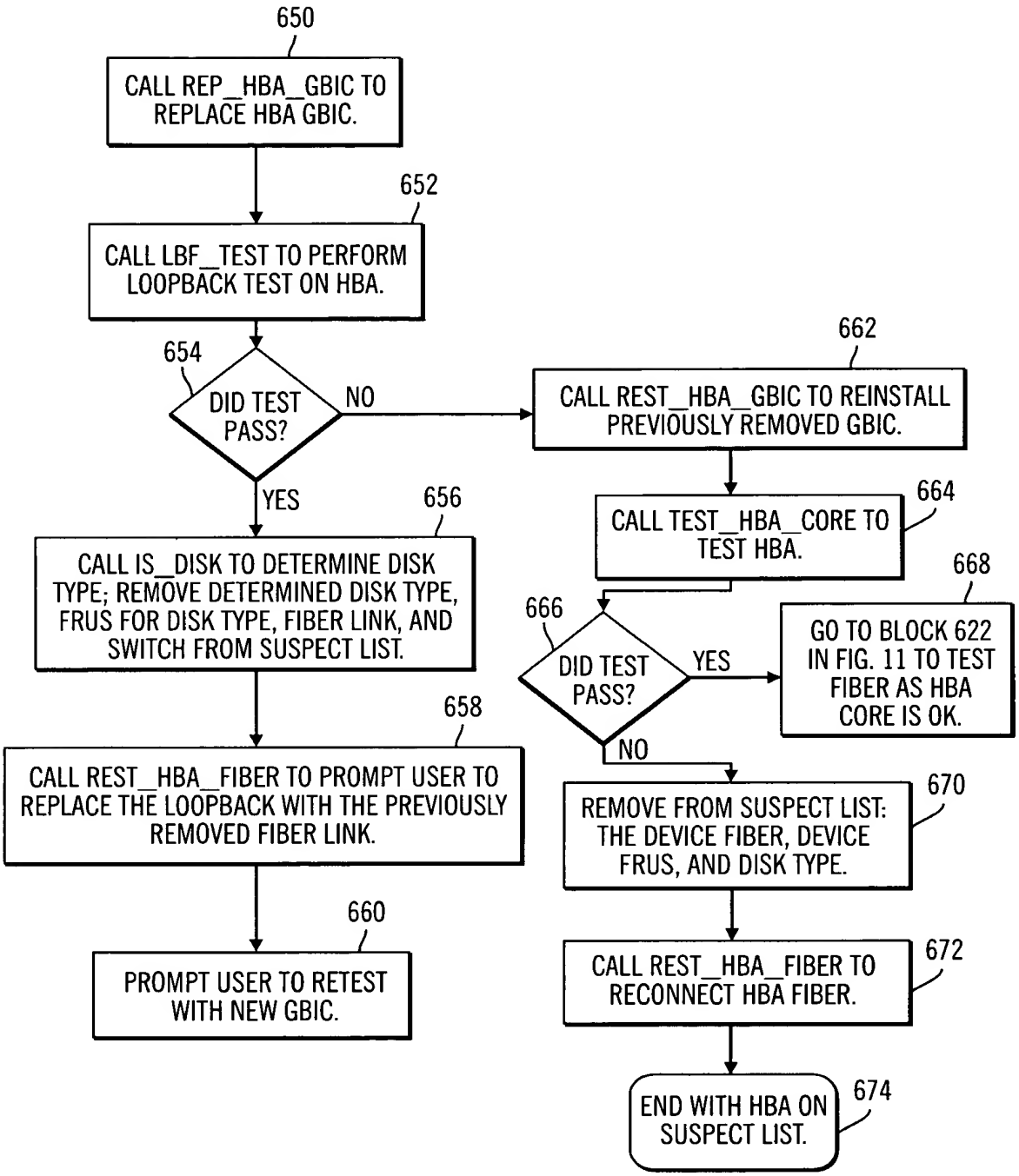

FIG. 12

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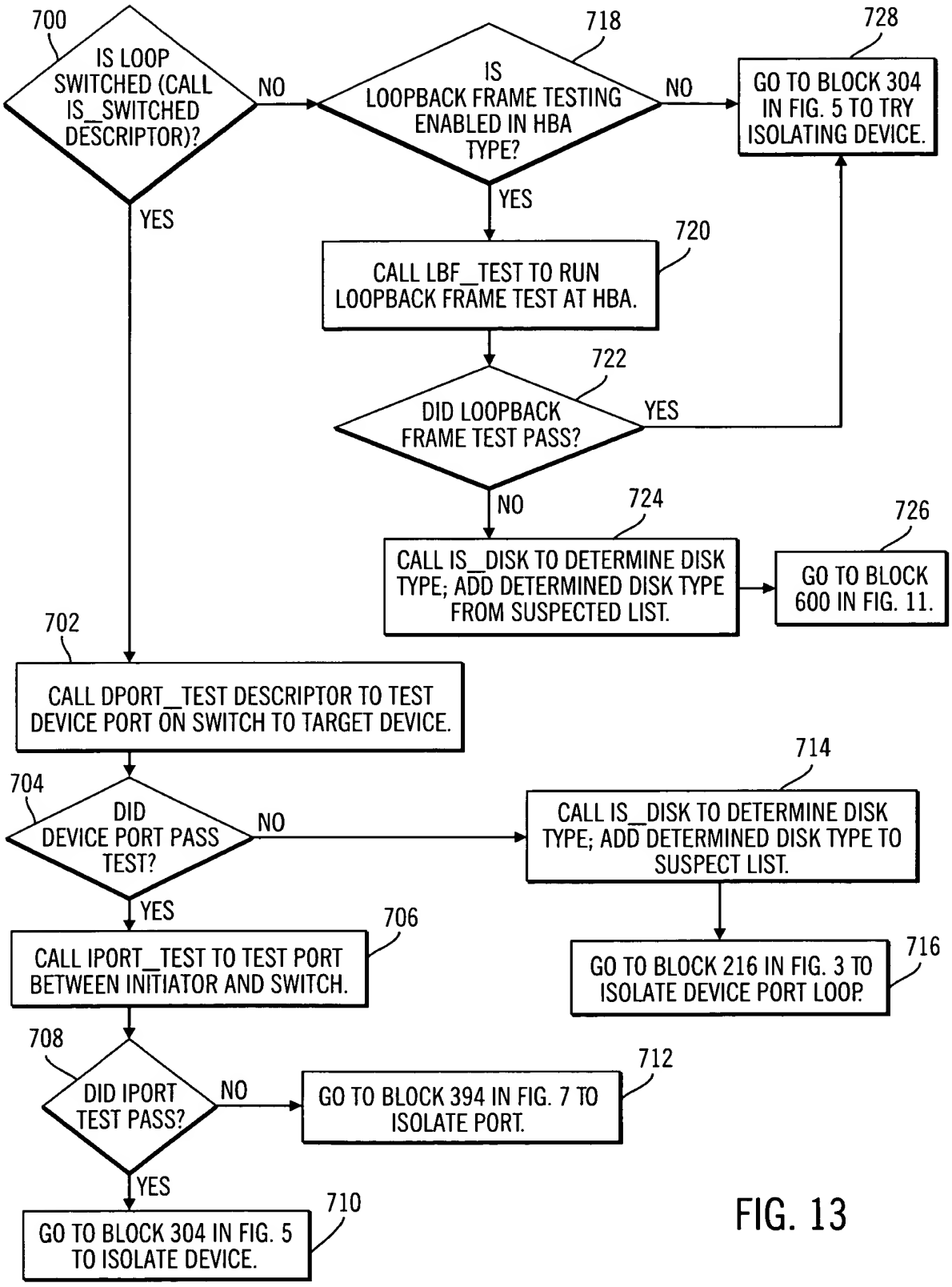

FIG. 13

09/752,506 - 06/19/01